



REPUBLIC OF THE PHILIPPINES
NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL

National Disaster Risk Reduction and Management Center, Camp Aguinaldo, Quezon City, Philippines

16 April 2019

MEMORANDUM

FOR : SECRETARY OF NATIONAL DEFENSE AND
CHAIRPERSON, NDRRMC

THRU : USEC CARDOZO M LUNA
USND

USEC REYNALDO B MAPAGU
USCVRA

FROM : Executive Director, NDRRMC and Administrator, OCD

SUBJECT : Update on Alert Status and Activity of Mayon, Kanlaon, and Taal
Volcanoes as of 8:00 AM

Source: DOST-PHIVOLCS

I. SITUATION OVERVIEW

A. ALERT STATUS OF MAYON VOLCANO

Mayon Volcano's seismic monitoring network **did not detect any volcanic earthquake** during the 24-hour observation period. Moderate emission of white steam-laden plumes that **drifted west-southwest to west-northwest** was observed. Sulfur dioxide (SO₂) emission was measured at an average of **791 tonnes/day on 14 April 2019**. Precise leveling data obtained on 20 - 26 March 2019 indicate a slight inflation of the edifice relative to 25 January-03 February 2019. This is consistent with measurements from continuous GPS and electronic tilt observations showing inflation of the edifice since June 2018.

Alert Level 2 currently prevails over Mayon Volcano. This means that Mayon is at a moderate level of unrest. DOST-PHIVOLCS reminds the public that sudden explosions, lava collapses, pyroclastic density currents or PDCs and ashfall can still occur and threaten areas in the upper to middle slopes of Mayon. DOST-PHIVOLCS recommends that entry into the six kilometer-radius Permanent Danger Zone or PDZ and a precautionary seven kilometer-radius Extended Danger Zone or EDZ in the south-southwest to east-northeast sector, stretching from Anoling, Camalig to Sta. Misericordia, Sto. Domingo must be strictly prohibited. People residing close to these danger areas are also advised to observe precautions associated with rockfalls, PDCs and ashfall. Active stream/river channels and those identified as perennially lahar-prone areas on all sectors of the volcano should also be avoided especially during extreme weather conditions when there is heavy and prolonged rainfall. Civil aviation authorities must advise pilots to avoid flying close to the volcano's summit as airborne ash and ballistic fragments from sudden explosions and PDCs may pose hazards to aircrafts.

B. ALERT STATUS OF KANLAON VOLCANO

Kanlaon Volcano's seismic monitoring network did not detect any volcanic earthquake during the past 24 hours. **Wispy emission of steam-laden plumes was observed**. Sulfur dioxide (SO₂)

emission was measured at an average of **172 tonnes/day on 14 April 2019**. Ground deformation data from latest continuous GPS measurements indicates slight deflation of the edifice.

Alert Level 1 (abnormal) status prevails over Kanlaon Volcano, which means that it is currently in a state of unrest probably driven by hydrothermal processes that could generate steam driven or phreatic eruptions. The local government units and the public are reminded to avoid entry into the 4-kilometer radius Permanent Danger Zone (PDZ) due to perennial hazards of rockfalls, avalanches, sudden outgassing and steam-driven or phreatic eruption at the summit area. Civil aviation authorities must also advise pilots to avoid flying close to the volcano's summit as ejecta from any sudden phreatic eruption can be hazardous to aircraft. DOST-PHIVOLCS is closely monitoring Kanlaon Volcano's activity and any new development will be relayed to all concerned.

C. ALERT STATUS OF TAAL VOLCANO

Taal Volcano's seismic monitoring network recorded **six (6) volcanic earthquakes** during the past 24 hours. Field measurements on 11 April 2019 at the eastern sector of the Main Crater Lake yielded an increase in water temperature from 31.7°C to 31.9°C, a decrease in water level from 0.41 meter to 0.31 meter and increase in acidity from pH 2.67 to pH 2.95. Ground deformation measurements through precise leveling surveys from March 18 to 27, 2019 indicated slight inflation of the edifice consistent with recent results from continuous GPS data.


Alert Level 1 remains in effect over Taal Volcano. This means that hazardous eruption is not imminent. The public, however, is reminded that the Main Crater should be strictly off-limits because sudden steam explosions may occur and high concentrations of toxic gases may accumulate. The northern portion of the Main Crater rim, in the vicinity of Daang Kastila Trail, may also become hazardous when steam emission along existing fissures suddenly increases. Furthermore, the public is also reminded that the entire Volcano Island is a Permanent Danger Zone (PDZ), and permanent settlement in the island is strongly not recommended.

II. ACTIONS TAKEN

1. NDRRM Operations Center prepared NDRRMC Advisory and Update, and disseminated the same to OCD Regional Centers CALABARZON, V, VI and VII through NDRRMC website in order to closely monitor the situation and take appropriate actions for any new development.
2. Concerned NDRRMC member-agencies were provided with a copy of the Memorandum for the SND.
3. DOST-PHIVOLCS is closely monitoring the activities of Mayon, Kanlaon, and Taal Volcanoes and any new development will be relayed to all concerned.

For the information of the SND / Chairperson, NDRRMC.

BY AUTHORITY OF THE CHAIRPERSON, NDRRMC:


UNDERSECRETARY RICARDO B JALAD
Executive Director, NDRRMC and
Administrator, OCD

NOTED <hr/> USCVRA Date: _____	NOTED <hr/> USND Date: _____	NOTED <hr/> SND Date: _____
--------------------------------------	------------------------------------	-----------------------------------